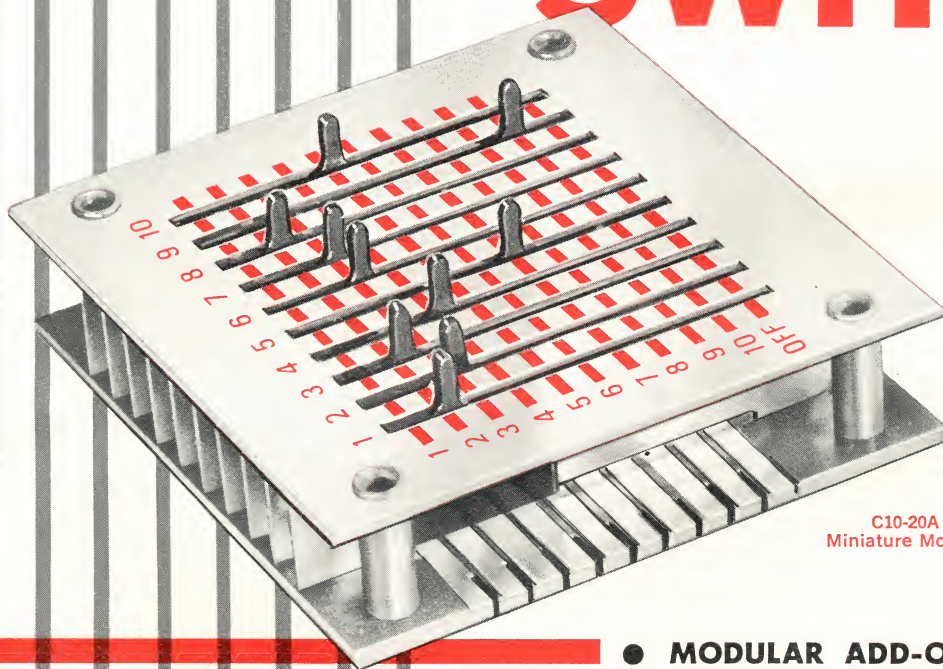


crossbar-type **SELECTOR SWITCHES**



C10-20A
Miniature Module

- MODULAR ADD-ON DESIGN
- MULTIPLE SWITCHING COMBINATIONS
- SIMPLE CIRCUIT SELECTION
- POSITIVE POSITION DETENT

Cherry Electrical Products Corporation



HIGHLAND PARK, ILLINOIS

A MODERN DESIGN CONCEPT

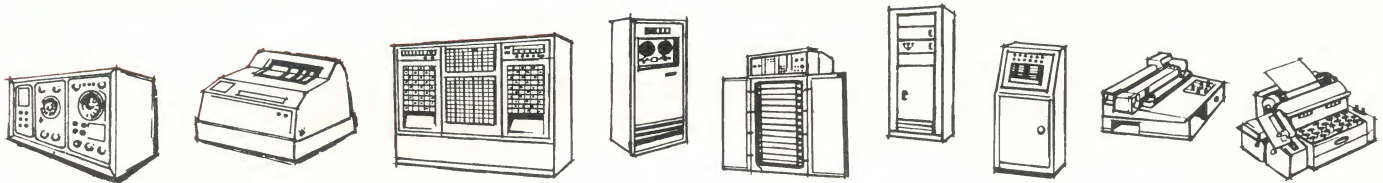
to meet MODERN SWITCHING requirements

Cherry Selector Switches are simple in design and fool proof in operation. The switch employs rhodium plated printed circuit strips, transverse slider rails with indexing sliders to permit cross point contacting, anodized aluminum face plate with numbered coordinates and black nylon selector knobs that house the sliding beryllium contacts. All this in a compact package with good visual array.

Cherry Selector Switches permit rapid circuit selection while eliminating the need for soldering, clips, pins or cumbersome connecting wires.

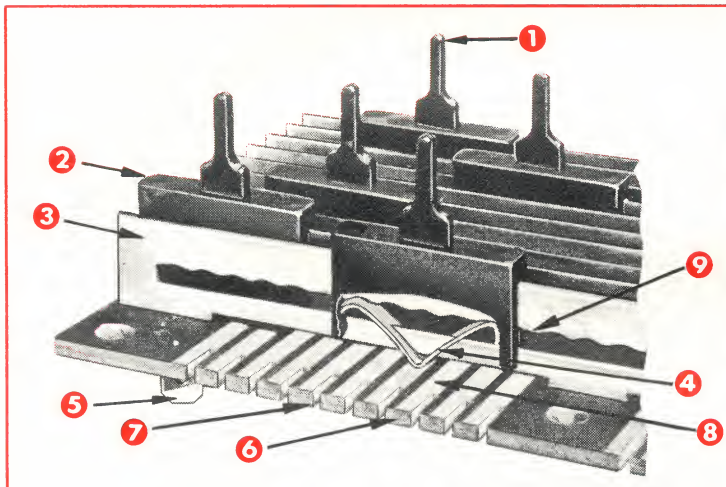
Modified designs of single miniature and double basic types provide complete interconnectability between all "x" and "y" circuits and off positions by means of printed circuitry on both sides of base.

APPLICATIONS . . .



Cherry Selector Switches are ideally suited for a variety of applications such as . . . communications . . . computer data entry panels . . . machine tool control and programming . . . tape machine track selector in telemetry data . . . circuit design and testing . . . setting up logic circuits . . . electronic control devices . . . programmed item and price selection.

CONSTRUCTION DETAILS . . .



1. Black nylon selector knob.
2. One piece housing for sliding contact-indexing spring.
3. Dual purpose slider rails (indexing and current carrying).
4. Beryllium copper sliding contact (indexing spring).
5. Standard Quick Connect terminals $\frac{1}{4}$ " wide x .032 thick (Mates with AMP Part No. 41772).
6. Circuit board.
7. Standard edge connector receptacle (Mates with AMP Part No. 42588-1).
8. Rhodium plated printed circuit strip.
9. Slider rail waveform for positive position detent.

CROSSTALK . . .

Crosstalk limits should be readily derived from capacitance values shown in the chart.

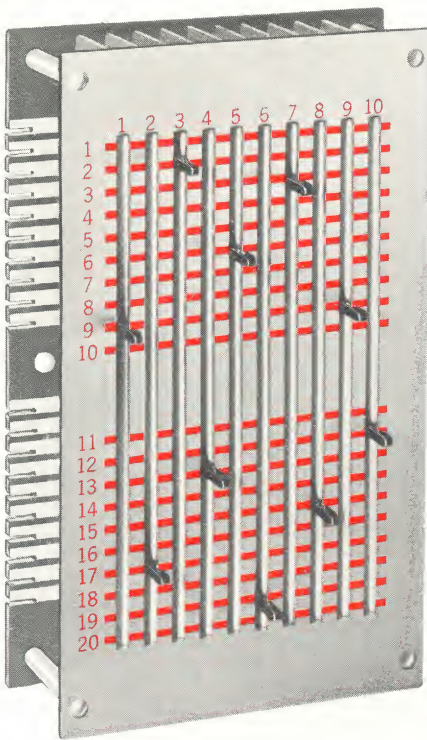
Crossbar-Type Selector Switches

Switch No.	Circuits Measured	Calculated Capacitance Ckt to Ckt	Calculated Capacitance Ckt to Ground	Added Capacitance as Result of Increased Cktry
C10-02A Double Basic Type	Capacitance between Sliders #1 & #2 when set on cross ccts. #1 & #2. Remaining Sliders @ Pos. #20	Pfd (10-12) 13.9	Pfd (10-12) 13.0	Pfd (10-12) —
C10-18A Double Patch-board Type	Capacitance between Sliders #19 & #20 when set on cross ccts. #1 & #2. Remaining Sliders @ Pos. #20	★ 18.2	17.8	4.3
	Capacitance between Sliders #1 & #2 when set on cross ccts. #1 & #2. Remaining Sliders @ Pos. #20	▲ 14.7	—	0.8

★ Longest printed Circuits on rear of board.

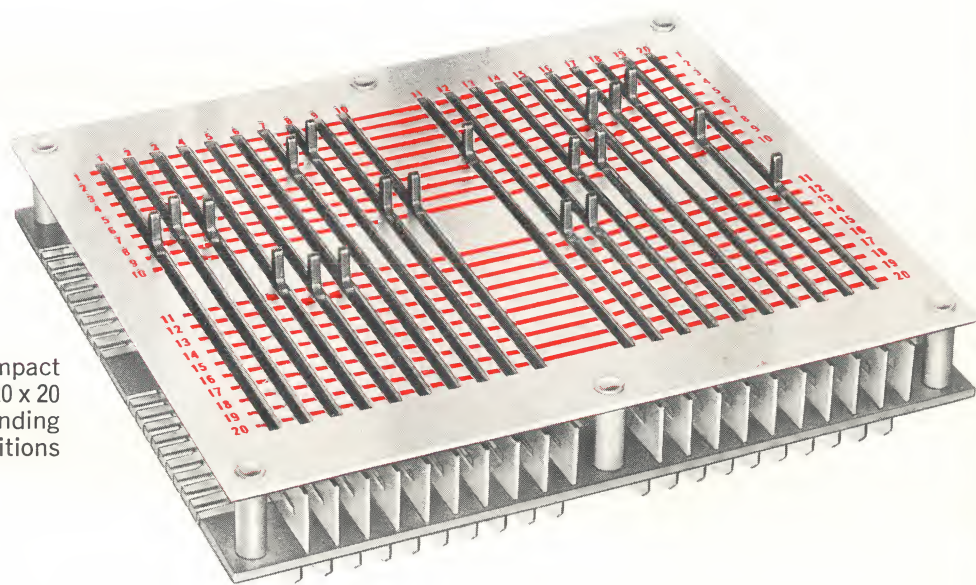
▲ Shortest printed Circuits on rear of board.

BASIC MODULES



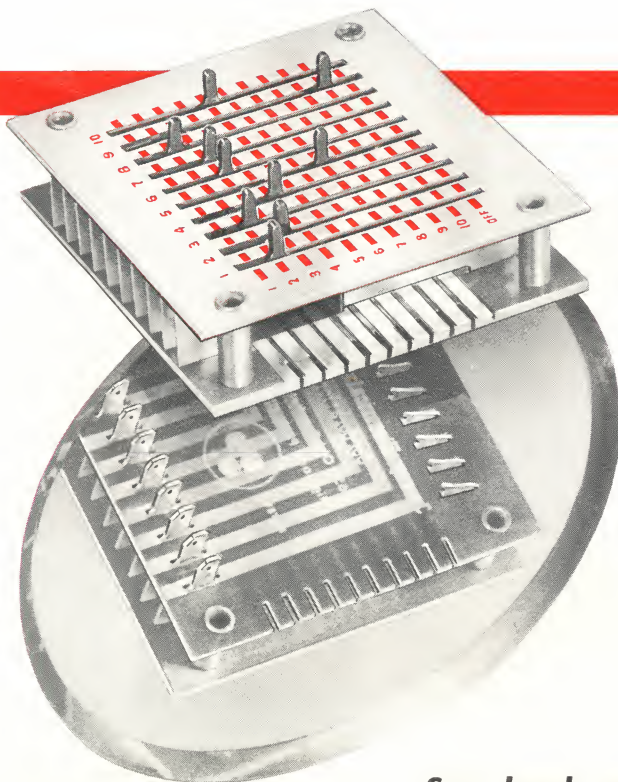
C10-01A Standard Single Type

The basic module offers 200 select stations in the 20x10 arrangement with center off position.



C10-02A Double Type

Two single basic modules combine in a compact package to provide 400 select stations in a 20 x 20 arrangement with center off position. By expanding to three, four and five modules switching positions of 600, 800 and 1000 are possible.



PATCHBOARD MODULES

C10-19A Miniature Type

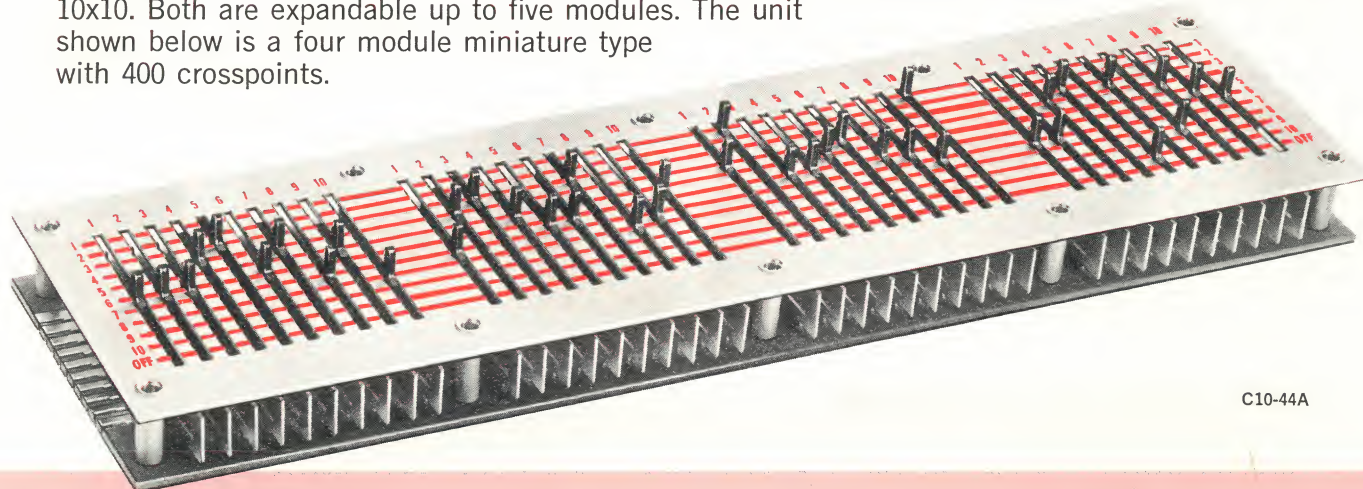
Printed circuit on both surfaces of the circuit board permits complete interconnectability in both the C10-19A miniature 10 x 10 configuration and the C10-18A double type 20 x 20 configuration.

See back page for dimensions and ordering information

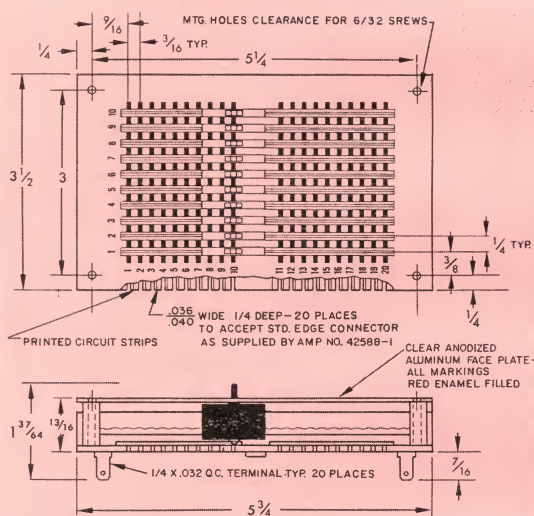
Up to 1000 station selections...

There are two standard modules. The Basic 20x10 and The Miniature 10x10. Both are expandable up to five modules. The unit shown below is a four module miniature type with 400 crosspoints.

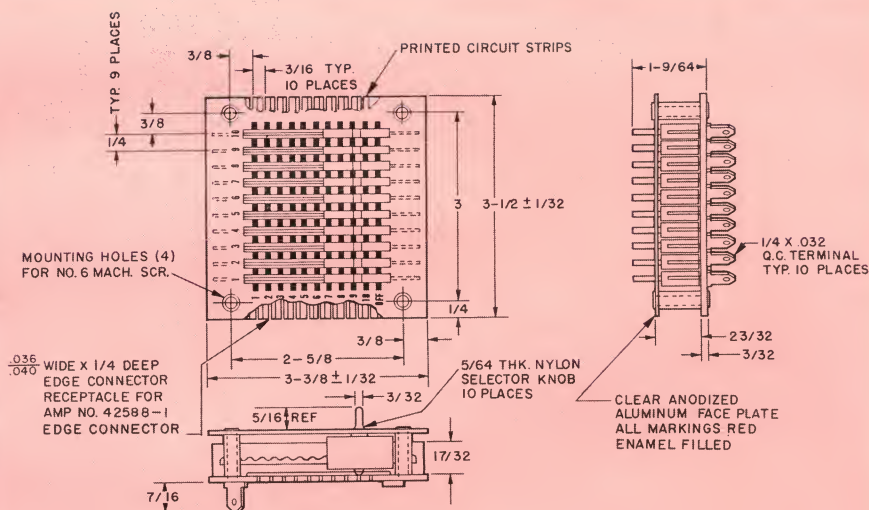
- ELECTRICAL CAPACITY**
1. Current carrying only, (no make or break)
3 Amp./125 volts A.C. or D.C.
 2. Make or break
1 Amp. 15 volts D.C.
150 m.a./125 volts A.C.



C10-44A



C10-01A



C10-20A

Pat. No. 3,205,319

ORDERING INFORMATION

MODEL NO.	NUMBER OF MODULES	TYPE	NUMBER OF SLIDERS	NUMBER OF PC STRIPS	NUMBER OF CROSSPOINTS	LIST PRICE	DISCOUNT SCHEDULE																
C10-01A	1 Module	Basic	10	20	200	\$20.50	<table><tr><th>Quantity</th><th>Discount List Price</th></tr><tr><td>1 to 24</td><td>LIST PRICE</td></tr><tr><td>25 to 49</td><td>25%</td></tr><tr><td>50 to 99</td><td>27%</td></tr><tr><td>100 to 499</td><td>37%</td></tr><tr><td>500 to 999</td><td>43%</td></tr><tr><td>1000 to 1999</td><td>48%</td></tr><tr><td colspan="2">for larger quantities consult factory</td></tr></table>	Quantity	Discount List Price	1 to 24	LIST PRICE	25 to 49	25%	50 to 99	27%	100 to 499	37%	500 to 999	43%	1000 to 1999	48%	for larger quantities consult factory	
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for larger quantities consult factory																							
C10-02A	2 Module	Basic	20	20	400	34.50																	
C10-03A	3 Module	Basic	30	20	600	46.50																	
C10-04A	4 Module	Basic	40	20	800	60.50																	
C10-05A	5 Module	Basic	50	20	1000	73.50																	
C10-20A	1 Module	Miniature	10	10	100	18.00																	
C10-42A	2 Module	Miniature	20	10	200	31.00																	
C10-43A	3 Module	Miniature	30	10	300	43.00																	
C10-44A	4 Module	Miniature	40	10	400	55.00																	
C10-45A	5 Module	Miniature	50	10	500	67.00																	
C10-19A	1 Module	Patchboard	10	10	100	21.00																	
C10-18A	2 Module	Patchboard	20	20	400	38.00																	

Terms: 1/2% 10th and 25th, net 30 days.

F.O.B. Shipping Point Highland Park, Illinois, U.S.A.

VARIATIONS OF ALL TYPES OF CHERRY CROSSBAR TYPE SELECTOR SWITCHES CAN BE PROVIDED TO MEET SPECIFIC ELECTRICAL AND MECHANICAL REQUIREMENTS

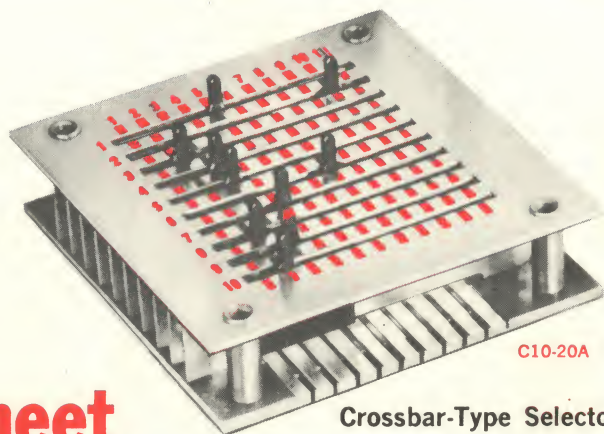
Cherry Electrical Products Corporation

Phone: 312-432-8182 TWX 910-688-3782



1650 OLD DEERFIELD ROAD
HIGHLAND PARK, ILL. 60036

NEW
CHERRY
SWITCH



C10-20A

Crossbar-Type Selector Switch

to meet
MODERN SWITCHING
requirements

B U S I N E S S R E P L Y M A I L

NO POSTAGE NECESSARY IF MAILED IN THE U.S.A.

Postage will be paid by:

Cherry Electrical Products Corporation

1650 OLD DEERFIELD ROAD

HIGHLAND PARK, ILLINOIS 60036

FIRST CLASS
Permit No. 258
Highland Pk., Ill.

☐ Yes, I would like to see a sample Crossbar Type Selector

Switch - Model No. _____.

☐ Specific application ☐ General Interest

I need a combination of _____ sliders with _____ positions.

T. H. Nelson
Systems Consultant
Box 1546
Poughkeepsie, N. Y. 12603
EP-cb260-8

City..... State..... Zip Code.....

Application.....

ATTENTION: CHIEF ENGINEER
IMPORTANT INFORMATION

The attached literature describes the standard versions of our new Crossbar Type Selector Switch. We have capabilities of making many versions of this switch to meet your application requirements. We can supply a maximum of 50 sliders with 48 positions on each slider at nominal tool cost.

Additional variations in circuitry, panel size, panel nomenclature, and slider arrangements are also possible.

Like to see a sample? Simply fill in and mail attached reply card. No obligation, of course.

